

## CLAIMS

cm We claim:

1. A material flow modifying device for a screed assembly of a  
 paving machine for applying paving material upon a generally  
 horizontal base surface, the screed assembly having a main screed  
 with a central axis extending in a direction of intended travel  
 of the paving machine and a screed extension mounted to the main  
 screed so as to be moveable between a first lateral position with  
 respect to the central axis and a second lateral position with  
 respect to the central axis, the flow modifying device  
 comprising:

a deflector member connected with the screed extension and  
 having a flow surface facing toward the central axis of the main  
 screed, contactable with paving material on the base surface and  
 configured to displace the paving material toward the central  
 axis when the paving machine moves in the intended travel  
 direction.

2. <sup>screed assembly</sup> The ~~flow modifying device~~ as recited in claim 1 wherein the  
 deflector member has a first end disposed adjacent to the screed  
 extension and a second, free end disposed proximal to the main

4 screed, the second end moving laterally with respect to the main  
5 screed when the screed extension moves between the first and  
6 second positions.

*screed assembly*  
A 1 3. The ~~flow modifying device~~ as recited in claim 1 wherein the  
2 deflector member has a first end disposed adjacent to the screed  
3 extension and a second end disposed proximal to the main screed,  
4 a distance between the second end and the central axis being  
5 greater than a distance between the first end and the central  
6 axis.

*screed assembly*  
A 1 4. The ~~flow modifying device~~ as recited in claim 1 wherein the  
2 deflector member has a first end disposed adjacent to the screed  
3 extension, a second, free end disposed proximal to the main  
4 screed, the second end being offset inwardly toward the central  
5 axis with respect to the first end.

*screed assembly*  
A 1 5. The ~~flow modifying device~~ as recited in claim 1 wherein:  
2 the main screed has a front vertical surface;  
3 the screed extension has an inner vertical surface facing  
4 generally toward the central axis and disposed generally  
5 perpendicular to the front surface of the main screed, and a rear

vertical surface disposed adjacent to the front surface of the main screed; and

the deflector member extends between the inner vertical surface of the screed extension and the front vertical surface of the main screed.

*screed assembly*  
 6. The ~~flow modifying device~~ as recited in claim 1 wherein the flow surface extends vertically and rearwardly at an obtuse angle with respect to the base surface.

*screed assembly*  
 7. The ~~flow modifying device~~ as recited in claim 1 wherein the deflector member includes a first portion attached to the screed extension and a second portion removably attached to the first portion.

*screed assembly*  
 8. The ~~flow modifying device~~ as recited in claim 1 wherein the deflector member is adjustably attached to the screed extension so as to enable adjustment of a horizontal position of the deflector member with respect to at least one of the screed extension, the main screed and the base surface.

9. The flow modifying device as recited in claim 1 in

combination with the screed assembly.

10. A device for a screed assembly of a paving machine for leveling paving material upon a generally horizontal base surface, the screed assembly having a main screed with a central axis extending in a direction of intended travel of the paving machine, and a screed extension movably connected with the main screed, the device comprising:

a deflector member having a first end disposed adjacent to the screed extension, a second, free end disposed proximal to the main screed, a distance between the first end and the central axis being greater than a distance between the second end and the central axis, and a flow surface extending between the first and second ends and contactable with paving material on the base surface.

11. The ~~device~~ <sup>screed assembly</sup> as recited in claim 10 wherein the flow surface displaces the paving material toward the central axis of the main screed when the paving machine moves in the intended travel direction.

12. The ~~device~~ <sup>screed assembly</sup> as recited in claim 10 wherein:

the screed extension is mounted to the main screed so as to be moveable between a first, most distal lateral position with respect to the central axis and a second, most proximal lateral position with respect to the central axis; and

the second end of the deflector member moves laterally along the main screed when the screed extension moves between the first and second positions.

*12/13 screed assembly 9 9*  
 13. The ~~device~~ as recited in claim 10 wherein:

the main screed has a front vertical surface;

the screed extension has an inner vertical surface facing generally toward the central axis and disposed generally perpendicular to the front surface of the main screed, and a rear vertical surface disposed adjacent to the front surface of the main screed; and

the deflector member extends between the inner vertical surface of the screed extension and the front surface of the main screed.

*13 screed assembly 9 9*  
 14. The ~~flow modifying device~~ as recited in claim 10 wherein the deflector member is adjustably attached to the screed extension so as to enable adjustment of a horizontal position of the

deflector member with respect to at least one of the screed extension, the main screed and the base surface.

*14 14* *screed assembly* *9*  
 15. The ~~device~~ as recited in claim 10 wherein the deflector member includes a first portion attached to the screed extension and a second portion removably attached to the first portion, the second portion having an edge slidably contactable with the main screed and another edge slidably contactable with the paving material.

*Sw A3*  
~~16. A device for a screed assembly of a paving machine for applying paving material upon a generally horizontal base surface, the screed assembly having a main screed with a central axis extending in a direction of intended travel of the paving machine and a screed extension connected with the main screed and having an inner end facing generally toward the central axis, the device comprising:~~

~~deflector means for displacing paving material in a direction from the end of the screed extension and toward the central axis of the main screed; and~~

~~attachment means for connecting the deflector means to the screed extension.~~

AB 1 <sup>14</sup> ~~17~~. <sup>screed assembly</sup> The ~~device~~ as recited in claim <sup>15</sup> ~~16~~ wherein <sup>the</sup> screed extension  
 2 is movably connected with the main screed such that the deflector  
 3 means is movable with respect to the main screed.

Sub A 1 <sup>17</sup> ~~18~~. A device for a screed assembly of a paving machine for  
 2 leveling paving material upon a generally horizontal base  
 3 surface, the screed assembly having a main screed with a central  
 4 axis extending in a direction of intended travel of the paving  
 5 machine, and a screed extension movably connected with the main  
 6 screed, the device comprising:

7 a deflector member having a first end disposed adjacent to  
 8 the screed extension, a second, free end disposed proximal to the  
 9 main screed, the second end being offset inwardly toward the  
 10 central axis with respect to the first end, and a flow surface  
 11 extending between the first and second ends and contactable with  
 12 paving material on the base surface.

A 1 <sup>18</sup> ~~19~~. <sup>screed assembly</sup> The ~~device~~ as recited in claim <sup>17</sup> ~~18~~ wherein the flow surface  
 2 displaces the paving material toward the central axis of the main  
 3 screed when the paving machine moves in the intended travel  
 4 direction.

A

19 / *screed assembly*  
20. <sup>1</sup>~~device~~

17

1 The <sup>1</sup>~~device~~ as recited in claim 18 wherein the deflector  
2 member includes a first portion attached to the screed extension  
3 and a second portion removably attached to the first portion, the  
4 second portion having an edge slidably contactable with the main  
5 screed and another edge slidably contactable with the paving  
6 material.

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